Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Zone Project Division

Name of Work :- Improvements of drains and Construction of RCC Culverts at Hegdenagara Ward No.06

					Estimate Cost Rs.			15.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	180.00							
	Area weightage 6%	10.80							
	Sub total	190.80							
	Lead 10 km	**82.60**							
	Total	**273.40**							
	Desilting	1	212.00	0.60	0.80	101.76			
	Culvert	1	9.00	1.80	1.00	16.20			
	Flagging Course								
	6th Cross	2	212.00	0.25	0.15	15.90			
	Kerb Stone	1	212.00	0.45	0.15	14.31			
						148.17	**Cum**	**273.40**	**40,509.68**
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5194.00							
	Area weightage 6%	311.64							
	Total	**5505.64**							
	Culvert	1	9.00	1.80	0.25	4.05			
	Flagging Course								
	6th Cross	2	212.00	0.25	0.15	15.90			
	Kerb Stone	1	212.00	0.45	0.10	9.54			
						29.49	**Cum**	**5505.64**	**162361.32**
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19) wall & bottom thickness 15cm.								
	Basic rate	5444.00							
	Area weightage 6%	326.64							
	Total	**5770.64**							

	Culverts								
	Bottom slab	1	9.00	1.80	0.20	3.24			
	Drain Walls	2	9.00	0.25	0.75	3.38			
						6.62	**Cum**	**5770.64**	**38,172.78**
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Basic rate	358.00							
	Area weightage 6%	21.48							
	Total	**379.48**							
	Culverts	4	9.00		0.80	28.80			
						28.80	**Sqm**	**379.48**	**10,929.02**
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area weightage 6%	4188.24							
	Total	**73992.24**							
	For Culvert								
	95Kg/Cum of Concrete		6.62	95.00		0.63			
						0.63	**Tn**	**73992.24**	**46,498.57**
6	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	2337.00							
	Flagging Course								
	6th Cross	1	212.00	0.90		190.59			
						190.59	**Sqm**	**2337.00**	**445404.16**
7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							
	Culverts	1	9.00	1.80		16.20			
						16.20	**Sqm**	**5418.00**	**87,771.60**

8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. Item No 5.30, Page No.27								
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Total	**432.48**							
	Flagging Course								
	6th Cross	1	212.00			212.00			
						471.00	**Nos**	**432.48**	**203698.08**
9	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. I.No.15.80, Page No.124								
	Basic rate	37.00							
	Area weightage 6%	2.22							
	Total	**39.22**							
	Flagging Course								
	6th Cross	1	212.00	0.45		95.40			
						95.40	**Sqm**	**39.22**	**3,741.59**
10	KSRB 15-19.2 : Providing and applying spray painting in one coat (excluding priming coat) over concrete / masonry / asbestos cement sheet /plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Item No 15.82, Page No.124								
	Basic rate	55.00							
	Area weightage 6%	3.30							
	Total	**58.30**							
	Flagging Course								
	6th Cross	1	212.00	0.45		95.40			
						95.40	**Sqm**	**58.30**	**5,561.82**
11	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 I.No.5.26.1, Page no 27								
	Basic rate	962.00							
	Area weightage 6%	57.72							
	Total	**1019.72**							
	Flagging Course								
	6th Cross	2	212.00		0.40	169.60			
						169.60	**Sqm**	**1019.72**	**172944.51**

	Providing granite slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.								
	Basic rate	912.00							
	Area weightage 6%	54.72							
	Total	**966.72**							
		1	212.00	1.78		377.36			
	Missing Slabs of 30%					113.21			
						113.21	**Sqm**	**966.72**	**109440.44**
								Total Construction Cost	**1327033.57**
								1% PMC Charges	**13,270.34**
								12% GST	**159244.03**
								Sub Total	**1499547.93**
								Miscellaneous & Rounding off	**452.07**
	GRAND TOTAL								**1500000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer,
BBMP Bangalore

Asst. Exec. Engineer,
BBMP Bangalore

Executive Engineer,
BBMP Bangalore
15/7/19

Administrative Approval

Accorded For RS15 w Rajeshcurly
Head of A/C P3296
CER NO : 74 **Dt:** 10.07.2019

TA CE (YNK)

Technical Sanction

Accorded For RS-15.00 Lakhs
Head of A/C P-3296
CER NO : 01 **Dt:** 15/7/19

E.E. (Project) 15/7